

REMARKS

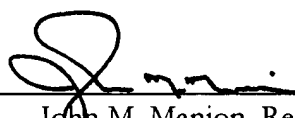
1. Applicants appreciate allowance of Claims 3-5 if rewritten in independent form, compliant with § 112, second paragraph. For the following reasons, Applicants respectfully submit that Claims 1, 2, and 6 are also now in condition for allowance and request passage thereto.
2. Applicants affirm election of species of Figure 1 and elect examination of Claims 1-6, inclusive.
3. Claims 7-12, although having stood withdrawn as they applied to a non-elected invention, have now been cancelled by Applicants.
4. Examiner objected to the Specification because page 3, line 6 refers to a second embodiment of the invention, but it was not clear as to what constituted a first embodiment. The Brief Description of the Drawings has been modified to better indicate which Figures relate to which embodiments.
5. Examiner objected to the Specification and Applicants appreciate Examiner's attention to detail and inconsistent terminology. All instances of the evacuation seal spring have been corrected. Thus, Applicants respectfully request withdrawal of the objection.
6. Examiner objected to the Specification regarding a typographical error. Page 4, line 18 has been corrected to incorporate Examiner's requirement. Hence, Applicants respectfully request withdrawal of the objection.
7. Examiner states "The specification is objected to as failing to provide proper antecedent basis for the claimed . . . 'cylindrical chamber' of claim 1." Applicants respectfully direct Examiner's attention to the top of page 6 of the application. In that paragraph, there is discussed a "cylindrical wall" of a chamber. Further, the paragraph states "The chamber 14 is described as being cylindrical, but any solid-shaped chamber, such as hexagonal or octagonal, that allows the system to operate is allowable." As such, Applicants respectfully submit that proper antecedent basis did exist for "cylindrical chamber" in claim 1, both in the text of the Description of the Preferred Embodiment and in the Drawings. However, Applicants have amended claim 1, deleting reference to a "cylindrical" chamber to more distinctly claim the present invention. Therefore, Applicants respectfully request withdrawal of the objection.

8. Examiner objected to Claim 2. Claim 2 has been amended so as to incorporate Examiner's suggestion and to clarify which chamber was referred to. Therefore, Applicants respectfully request withdrawal of the objection.
9. Examiner rejected Claims 1-6 under 35 U.S.C. § 112, second paragraph, as being incomplete for omitting essential structural connections. Claim 1 has been amended, indicating that the second check valve is received and operatively disposed in the drive end of the piston. Applicants believe that such amendment places claims 1-6 in compliance of § 112, second paragraph. Therefore, Applicants respectfully request that the rejection be withdrawn and Claim 1 allowed.
10. Examiner rejected Claim 1 under 35 U.S.C. § 102(b) as being anticipated by either Oderman, U.S. Pat. No. 600,841 or Whitaker, et al., U.S. Pat. No. 990,616. Claim 1 has been amended to elaborate on the structural cooperation of the second check valve with the drive end of the piston. In so amending, Applicants respectfully submit that such structural cooperation removes claim 1 from Examiner's stated rejection. Specifically, neither Oderman nor Whitaker shows a check valve received and operatively disposed in the drive end of the piston. Indeed, neither of Oderman's check valves (D or G) is received in a piston (C). Further, although Whitaker has a check valve (12) received in a piston (11), the valve (12) is proximate the working end (end nearest the discharge chamber 30 or pipe 14) of the piston (11) and not the drive end (end near socket 26). Such an orientation, according to the present invention, is advantageous so as to allow the elimination of a drive mechanism that is separate from the check valve. In other words, there is no need for a separate drive rod. Rather, the fluid pressure within the chamber is responsible for moving the check valve and for driving the piston. Therefore, Applicants respectfully submit that Claim 1 has been placed in condition for allowance.
11. Examiner rejected Claim 2 under 35 U.S.C. § 103(a) as being unpatentable over either Oderman or Whitaker, et al., in view of Stockbridge, U.S. Pat. No. 4,739,612. Claim 2 is a dependent claim depending from independent claim 1. By definition, claim 2 adds only further limitations to now allowable claim 1, and therefore allowance of claim 2 is respectfully requested.
12. Examiner rejected Claim 6 under 35 U.S.C. § 103(a) as being unpatentable over Whitaker, et al. Claim 6 is a dependent claim depending from independent claim 1. By definition, claim

6 adds only further limitations to now allowable claim 1, and therefore allowance of claim 6 is respectfully requested.

13. Applicants have amended Figure 4. A replacement sheet is attached to this amendment document. Applicants have repositioned the lead lines for reference numerals 48 and 77 to appropriately direct the reader's attention to the abutable portions of the check valve 44 and the adjusting screw 71. Further, a line was added to more accurately depict the stepped bore in which the check valve is seated. The added line can be seen just above reference numerals 158.
14. Applicants have amended Figure 14. A replacement sheet is attached to this amendment document. Applicants corrected a typographical error converting reference "10a" to "10b."
15. Applicants have made several administrative amendments to the specification. No new matter has been added to the application. Rather, the purpose of the Specification amendments was compliance with Examiner's requests and correction of typographical errors.

Respectfully Submitted,

By 
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Oil-Rite/17878/060622 Amt. A

Enclosures: Amendment Transmittal Letter
 Two (2) Replacement Sheets of Drawings
 Return Postcard